

SPACE MATRIX

1	COURTROOM	4
2	LOBBY	1 3 3
3	COUNSEL, PROSECUTION	4 1 1 3
4	WITNESS, PROSECUTION	1 1 1 3 3
5	WITNESS, DEFENSE	1 1 3 1 2 3 3
6	COUNSEL, DEFENSE	4 2 2 2 3 3 3 3 4
7	REPORTER	2 2 2 3 3 3 3 1 2 4
8	HEATER & UTILITY ROOM	2 3 3 3 3 2 2 2 2 4
9	JANITOR'S CLOSET	4 2 2 2 2 2 2 2 2 2
10	WOMEN'S TOILET	4 3 2 2 2 2 2 2 2 2
11	MEN'S TOILET	3 2 2 2 2 2 2 2 2 2
12	JUDGE'S OFFICE	2 2 2 2 2 2 2 2 2 2
13	STORAGE	2 2 2 2 2 2 2 2 2 2
14	TOILET, SINGLE OCCUPANCY	4
15	DELIBERATION	

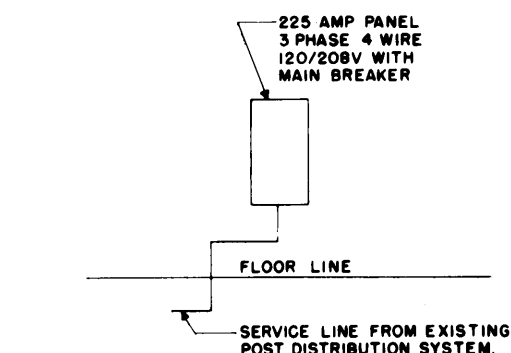
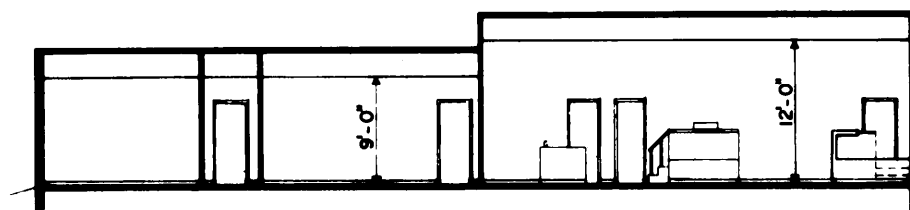
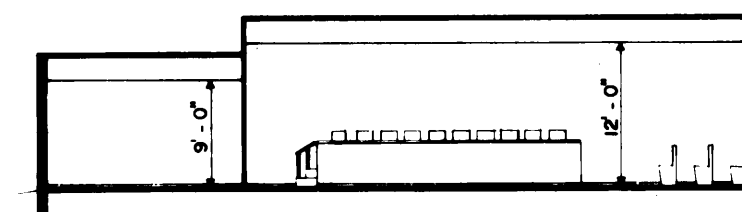
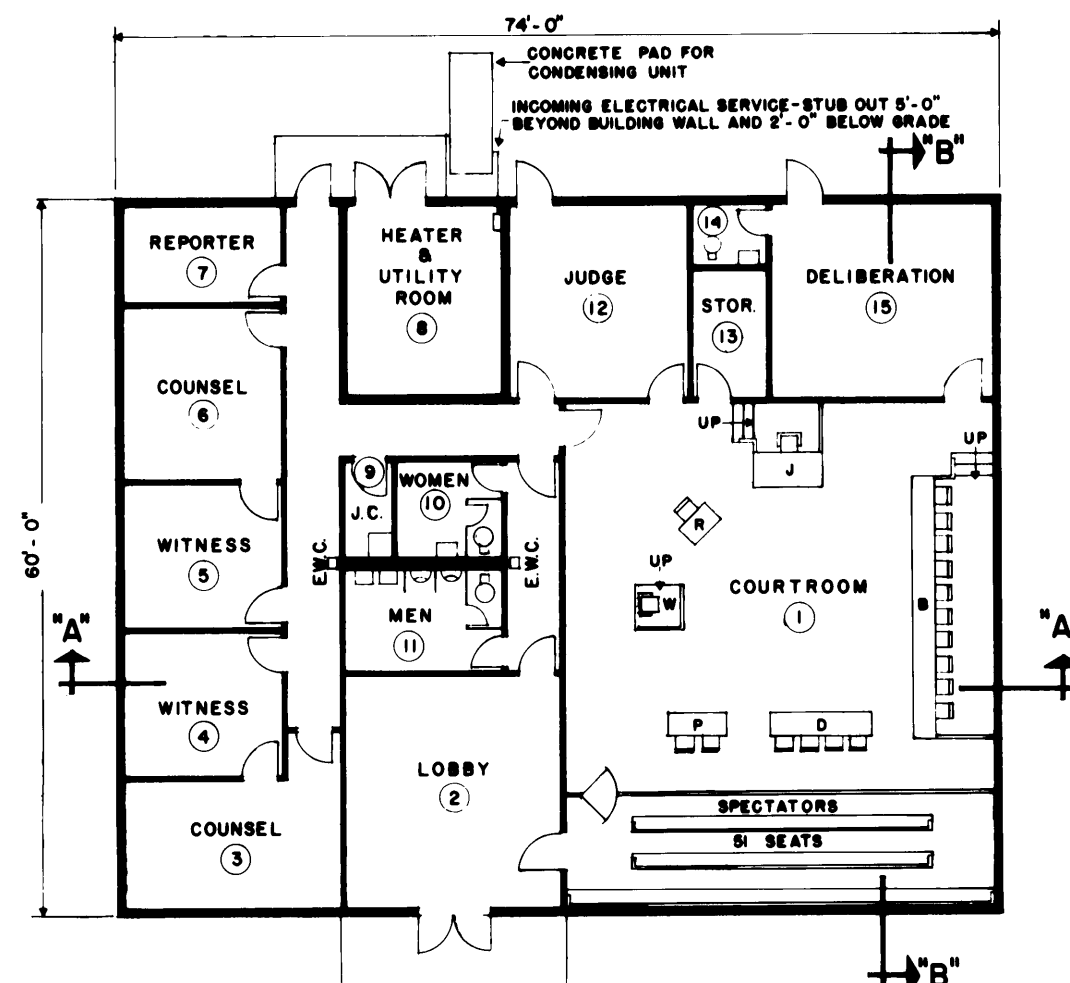
ACCESSIBILITY CODE

1. UNDESIRABLE ACCESSIBILITY
2. NO FUNCTIONAL RELATIONSHIP
3. ACCESSIBLE
4. ADJACENT

RM. NO.	DESCRIPTION	NET AREA SQ. FT.
1	COURTROOM	1,512
2	LOBBY	351
3	COUNSEL, PROSECUTION	190
4	WITNESS, PROSECUTION	156
5	WITNESS, DEFENSE	156
6	COUNSEL, DEFENSE	190
7	REPORTER	108
8	HTR. & UTILITY ROOM	208
9	JANITOR	32
10	WOMEN'S TOILET	64
11	MEN'S TOILET	100
12	JUDGE'S OFFICE	240
13	STORAGE	66
14	TOILET, SINGLE OCCUP.	30
15	DELIBERATION	302

* GROSS PROGRAMMING AREA
(INCLUDING HEATER & UTILITY RM.)

4,440 SQ. FT.

ELECTRICAL RISER DIAGRAM
NO SCALESECTION "A" - "A"
SCALE: 1/8" = 1'-0"SECTION "B" - "B"
SCALE: 1/8" = 1'-0"FLOOR PLAN
SCALE: 1/8" = 1'-0"

LEGEND

- B 10 MEMBER BOARD
- D DEFENSE COUNSEL
- E.W.C. ELECTRIC WATER COOLER
- J JUDGE
- P PROSECUTION
- R REPORTER
- W WITNESS

NOTE:
REPORTER'S TABLE, WITNESS STAND, AND
COUNSEL TABLES ARE MOVEABLE.

1/8" = 1'-0" 5' 0' 5' 10' 15'
GRAPHIC SCALE

PROGRAMMING AND PLANNING GUIDES
GENERAL NOTES

1. BASIC CRITERIA AND CONSTRUCTION STANDARDS SHALL BE IN ACCORDANCE WITH DOD CONSTRUCTION CRITERIA MANUAL 4270.1 M.
2. THE ARRANGEMENT AND FUNCTIONAL LAYOUT INDICATED WILL BE FOLLOWED UNLESS PRIOR CLEARANCE FOR CHANGE HAS BEEN OBTAINED FROM THE JUDGE ADVOCATE GENERAL, DEPARTMENT OF THE ARMY, WASHINGTON, D. C.
3. THE SECTIONS INDICATED IN THIS DEFINITIVE DRAWING ARE NOT MEANT TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT OR USE OF SPECIFIC MATERIALS. MATERIALS USED SHALL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.
4. DESIGN SHOWN HAS BEEN DEVELOPED AS A SEPARATE BUILDING, BUT THE CRITERIA AND FUNCTIONAL RELATIONSHIPS OF THE INTERIOR COMPONENTS SHALL BE USED AS GUIDES IN THE CONVERSION OF EXISTING STRUCTURES INTO COURTROOMS.
5. APPROPRIATE FENESTRATION SHOULD BE PROVIDED IN ACCORDANCE WITH REQUIREMENTS DICTATED BY GEOGRAPHICAL LOCATION, ORIENTATION OF THE FACILITY AND PLEASING APPEARANCE.
6. ROOF CONSTRUCTION SHALL BE CLEAR SPAN BETWEEN THE PERIMETER WALLS OF THE COURTROOM.
7. CARE SHOULD BE GIVEN TO THE ACOUSTICAL TREATMENT OF COURTROOM.
8. A MANUAL FIRE ALARM AND EVACUATION SYSTEM WILL BE PROVIDED WHEN THE FACILITY IS A SEPARATE BUILDING. WHEN THE FACILITY IS INCLUDED IN AN EXISTING STRUCTURE, THE FIRE ALARM SYSTEM OF THE BUILDING SHALL BE EXTENDED TO PROVIDE AN ALARM BELL IN THE COURTROOM AND A PULLBOX AT EXITS DIRECTLY TO THE OUTSIDE.
9. STRUCTURAL DESIGN SHALL BE IN ACCORDANCE WITH DEPARTMENT OF THE ARMY TECHNICAL MANUALS TM 5-809-1 THRU 5, 10, AND 11 AS APPLICABLE.

SITING

THE PROPOSED SITE FOR THE COURTROOM SHALL BE NEAR OR ADJACENT TO EATING FACILITIES, INSTALLATION HEADQUARTERS, AND PARKING FOR 50% OF THE COURTROOM DESIGN CAPACITY.

UTILITY REQUIREMENTS

THE UTILITY REQUIREMENTS INDICATED BELOW SHALL BE USED AS GENERAL PROGRAMMING GUIDANCE AND DESIGN CHECKS. DESIGN CALCULATIONS FOR SPECIFIC CASES SHALL BE BASED UPON THE LATEST ARMY AND DOD CRITERIA.

ELECTRICAL

KVA LOAD W/ AC	-20°F	0°F	+20°F
CONNECTED LOAD	54.8	55.0	55.3
ESTIMATED DEMAND	52.3	52.5	52.8

PROVIDE A SOUND SYSTEM COMPLETE WITH ONE MICROPHONE OUTLET AT EACH OF THE FOLLOWING LOCATIONS: JUDGE'S BENCH, FRONT SIDE OF JUDGE'S BENCH 18 INCHES ABOVE THE FINISHED FLOOR, AND WITNESS STAND. PROVIDE 10 OUTLETS ON THE COURT MEMBERS' BENCH.

WATER

TOTAL WATER DEMAND	MINIMUM	57	GPM
HOT WATER DEMAND	"	12.4	GPH
HOT WATER STORAGE	"	21.7	GALLONS

HEATING REQUIREMENTS

	-20°F	0°F	+20°F
M BTU/HR	233.7	190.6	145.9
GAS-CFH	233.7	190.6	145.9
H.T. WATER, GPM	3.1	2.6	2.0
STEAM-LB/HR	233.7	190.6	145.9
OIL-GPH	1.6	1.3	1.0

QUANTITY OF FUEL OIL BASED ON 144,000 BTU/GAL.

SOURCE OF HEAT WILL BE CENTRAL STEAM, HIGH TEMPERATURE WATER, GAS OR OIL (LIGHT).

QUANTITY OF GAS IS BASED ON 1000 BTU/CF.

H.T. WATER IS BASED ON 150° TEMPERATURE DIFFERENCE.

HEATING CALCULATIONS ARE BASED ON THE USE OF STORM WINDOWS IN -20°F AND 0°F ZONES.

HEATING AND UTILITY ROOM IS SIZED FOR BOTH HEATING AND COOLING REQUIREMENTS.

VENTILATING

PROVIDE EXHAUST VENTILATION AS REQUIRED IN TM 5-810-1.

BUILDING EXHAUST	-20°F	0°F	+20°F
CFM	1,400	1,400	1,400
HEATER & UTILITY ROOM EXHAUST	-20°F	0°F	+20°F
CFM	830	830	830

THE REQUIREMENTS FOR MECHANICAL VENTILATION AND EVAPORATIVE COOLING SYSTEMS FOR COMFORT COOLING HAVE BEEN OMITTED BUT WILL BE DEVELOPED WHERE NEEDED, DURING PROJECT DESIGN.

AIR CONDITIONING

FACILITY TO BE COMPLETELY AIR CONDITIONED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF DOD 4270.1 M. DESIGN CAPACITY IS BASED ON 95°F DB AND 78°F WB OUTSIDE TEMPERATURE AND 78°F DB AND 65°F WB INSIDE TEMPERATURE.

	-20°F	0°F	+20°F
TONS OF REFRIG.	19.3	19.5	19.8

NOTE: SYSTEM CAPACITY DESIGNED TO PROVIDE FOR 20 CFM OUTSIDE AIR PER PERSON. REFRIGERATION TONNAGE CAPACITY FIGURED FOR 3 P.M. SUNTIME.

REV. 1 2 EXTERIOR DOORS ADDED ONE IN RM 12 AND ONE IN RM 15 JULY 86

SPECTOR, PEAKE and HOWELL ARCHITECTS FALLS CHURCH, VIRGINIA		DEPARTMENT OF THE ARMY OFFICE OF THE CHIEF OF ENGINEERS MILITARY CONSTRUCTION ENGINEERING DIVISION WASHINGTON, D. C.	
DRAWN BY: V.P.S.	TRACED BY: P.J.D.	CHECKED BY: V.P.S.	
SUBMITTED BY: [Signature]		APPROVED BY: [Signature]	
APPROVED FOR THE JUDGE ADVOCATE GENERAL [Signature]		DATE: 12 March 1975	
CHIEF, ENGINEERING BRANCH		CHIEF, ENGINEERING DIVISION, MIL. CONSTR. O.C.E.	
SCALE: 1/8" = 1'-0"		SPEC NO: N/A	
DATE: 12 MARCH 1975		DEF 730-90-01	
SHEET 1 OF 1			